

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
23 October 2003 (23.10.2003)

PCT

(10) International Publication Number
WO 03/088625 A1

(51) International Patent Classification⁷: H04L 29/12

(21) International Application Number: PCT/US03/09834

(22) International Filing Date: 28 March 2003 (28.03.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/370,812 8 April 2002 (08.04.2002) US

(71) Applicant (for all designated States except US): TELEFONAKTIEBOLAGET LM ERICSSON (PUBL) [SE/SE]; S-126 25 Stockholm (SE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): VOLZ, Bernie [US/US]; 19 Fiske Road, Ashland, MA 01721 (US). CHAMBERT, George [SE/SE]; Eksatravagen 138, S-756 55 Uppsala (SE). KORLING, Martin [SE/SE]; Skuggvagen 12, S-191 45 Sollentuna (SE). LANDFELDT, Bjorn [SE/AU]; 23 Mayman Row, Menai, NSW 2234 (AU). ISMAILOV, Yuri [SE/SE]; Rinkebysvängen 91/407, S-163 74 Spanga (SE).

(74) Agents: STAHL, Scott, B. et al.; Jackson Walker L.L.P., Suite 600, 2435 N. Central Expressway, Richardson, TX 75080 (US).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

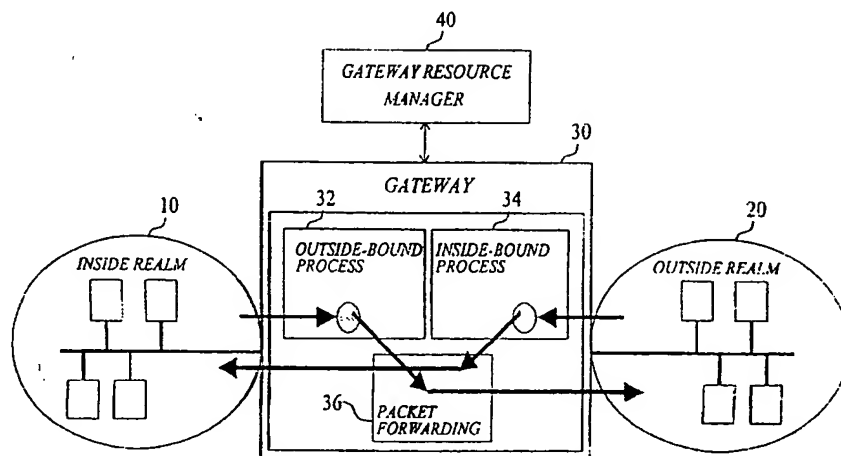
(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

[Continued on next page]

(54) Title: METHOD AND SYSTEM FOR ENABLING CONNECTIONS INTO NETWORKS WITH LOCAL ADDRESS REALMS



(57) Abstract: The invention generally concerns the issue of providing connectivity between two different address realms, generally referred to as an inside realm and an outside realm, by establishing connections through an intermediate gateway. The gateway normally has a number of outside-realm gateway addresses for enabling representation of inside-realm nodes in the outside realm. In a first aspect, support for flexible outside-realm initiated connections is enabled by dynamically establishing new gateway connection states triggered, for each new connection, by a respective user-resource identifier query initiated from a corresponding outside node. In a second aspect of the invention, intelligent use of predetermined connection information in the process of setting up new gateway connection states makes it possible to significantly increase the number of connections that can be simultaneously supported by the gateway using a limited number of outside-realm addresses.